## AMENDMENT TO THE CLAIMS

- 1. (original): A method of forming a narrow writer pole of a write element, the method comprising steps of:
  - (a) forming a non-magneti¢ layer;
  - (b) forming a writer pole portion on the non-magnetic layer having first and second side walls which define a width of a magnetically active region, the width of the magnetically active region defining a track width of the write element; and
  - (c) transforming the first side wall into a magnetically dead side wall thereby reducing the width of the magnetically active region and the track width of the write element by a thickness of the magnetically dead first side wall.
- 2. (original): The method of claim 1, including a step (d) of transforming the second side wall into a magnetically dead side wall thereby further reducing the width of the magnetically active region and the track width of the write element by a thickness of the magnetically dead second side wall.
- 3. (original): The method of claim 1, wherein the forming step (b) is performed in accordance with at least one process selected from a group consisting of sputter deposition, photolithography, etching, milling, and electroplating.
- 4. (original): The method of claim 1, wherein the transforming step (c) is performed in accordance with at least one process selected from a group consisting of irradiation and ion implantation.

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5. (original): The method of claim 4, wherein an element used in ion implantation is selected from a group consisting of nitrogen, argon, boron, phosphorous, and gallium.

6. (original): The method of claim 2, wherein the transforming steps (c) and (d) are performed in accordance with at least one process selected from a group consisting of irradiation and ion implantation.

- 7. (original): The method of claim 6, wherein an element used in ion implantation is selected from a group consisting of nitrogen, argon, boron, phosphorous, and gallium.
- 8. (original): The method of claim 1, wherein the forming step (b) includes:
  - (b)(1) forming photoresist dams on the non-magnetic layer;
  - (b)(2) forming the writer pole portion between the photoresist dams; and
  - (b) (3) removing the photoresist dams.
- 9. (original): The method of claim 1, wherein the writer pole is either a top pole of a bottom pole of the write element.
- 10. (original): A write element comprising:
  - a return pole
  - a writer gap /layer adjacent the return pole; and
  - a writer pole separated from the return pole by the writer gap layer and having a width and a magnetically active region adjoining a first magnetically dead side wall;
  - wherein the magnetically active region defines a width of the write element, which is less than a width of the writer pole

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11. (original): The write element of claim 10, including a second magnetically dead side wall opposite the first magnetically dead side wall and having a thickness, whereby the width of the write element is the width of the writer pole less the thicknesses of the first and second magnetically dead side walls.

- 12. (original): The write element of claim 10, wherein the first magnetically dead side wall is formed of a magnetic material implanted with an element selected from a group consisting of nitrogen, argon, boron, phosphorous, and gallium.
- 13. (original): The write element of claim 11, wherein the first and second magnetically dead side walls are formed of a magnetic material implanted with an element selected from a group consisting of nitrogen, argon, boron, phosphorous, and gallium.
- 14. (original): The write element of claim 10, wherein the writer pole is either a bottom pole or a top pole.
- 15. (original): A disc drive storage system including the write element of claim 10.
- 16. (original): A write/element comprising:
  - a writer gap layer formed adjacent a return pole;
  - a writer pole formed adjacent the writer gap layer opposite the return pole and having an active region whose width defines a width of the write element; and
  - an active region reducing means for reducing the width of the active region without reducing a width of the writer pole.

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17. (original): The write element of claim 16, wherein the active region reducing means includes at least one magnetically dead side wall adjoining the active region.

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18. (original): The write element of claim 17, wherein the magnetically dead side wall is formed of a magnetic material implanted with an element selected from a group consisting of nitrogen, argon, boron, phosphorous, and gallium.

- 19. (original): A disc drive storage system including the write element of claim 16.
- 20. (new): A method of forming a writer pole of a write element, the method comprising:
  - a) forming a non-magnetic layer;
  - b) forming a writer pole portion on the non-magnetic layer, the writer pole portion having first and second side walls that define a width of the writer pole portion and an initial width of a magnetically active region; and
  - c) reducing the initial width of the magnetically active region without reducing the width of the writer pole portion.
- 21. (new): The method of claim 20, wherein the reducing step c) includes transforming the first side wall into a magnetically dead side wall thereby reducing the initial width of the magnetically active region by a thickness of the magnetically dead side wall.
- 22. (new): The method of claim 21, wherein the reducing step c) is performed in accordance with at least one process selected from the group consisting of irradiation and ion implantation.

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23. (new): The method of claim 22, wherein an element used in ion implantation is selected from the group consisting of nitrogen, argon, boron, phosphorous, and gallium.

24. (new): The method of claim 20, wherein the reducing step c) includes transforming the first side wall into a first magnetically dead side wall and transforming the second side wall into a second magnetically dead side wall thereby reducing the initial width of the magnetically active region by a thickness of the first magnetically dead side wall and a thickness of the second magnetically dead side wall.

- 25. (new): The method of claim 24, wherein the reducing step c) is performed in accordance with at least one process selected from the group consisting of irradiation and ion implantation.
- 26. (new): The method of claim 25, wherein an element used in ion implantation is selected from the group consisting of nitrogen, argon, boron, phosphorous, and gallium.